Notice of Allowability	Application No.	Applicant(s)	Applicant(s)	
	10/559,949	 SILLEKENS ET AL.	SILLEKENS ET AL.	
	Examiner	Art Unit		
	JOYCE TUNG	1637		
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr GHTS. This application is and MPEP 1308.	in this application. If not includ nunication will be mailed in due subject to withdrawal from issu	ed course. THIS ue at the initiative	
2. \square An election was made by the applicant in response to a rest requirement and election have been incorporated into this action.	riction requirement set for	th during the interview on	_; the restriction	
3. ☑ The allowed claim(s) is/are <u>2, 6, 12, 15-21, 23-33 (final clain</u>	<u>ns 1-21)</u> .			
 4. Acknowledgment is made of a claim for foreign priority under a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on the delow. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 	been received. been received in Applicate cuments have been received of this communication to find the communication to find the communication. The communication to find the communication to find the communication to find the communication. The communication to find the communication the communica	ion No ed in this national stage applica le a reply complying with the re- AMINER'S AMENDMENT or No or declaration is deficient.	quirements	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's		·		
Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			∍ back) of	
 DEPOSIT OF and/or INFORMATION about the deposit of B attached Examiner's comment regarding REQUIREMENT FC 				
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ⊠ Interview Paper No 7. ⊠ Examiner'	Informal Patent Application Summary (PTO-413), b./Mail Date <u>9/22/2011</u> . s Amendment/Comment s Statement of Reasons for Allo	owance	
/Kenneth R Horlick/ Primary Examiner, Art Unit 1637				

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EXAMINER'S AMENDMENT

The response filed 9/8/2011 to the Office action has been entered. Claims 2, 6, 12, 15-21, 23-31 are pending.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ms. Alice M. Bonnen on 9/22/2011.

2. The application has been amended as follows:

Cancel claim 11.

Claim 12 (amended) A pair of oligonucleotides for amplification of a target sequence of the genome of SARS coronavirus, said pair selected from the group consisting of:

- (a) a first oligonucleotide sequence of: SEQ ID NO:10: aattctaata cgactcacta tagggAACAT AACCAGTCGG TACAGCTACT A, and a second oligonucleotide sequence of: SEQ ID NO:7: GAAGCTATTC GTCACGTTCG, or the complementary nucleotide sequence of SEQ ID NO:7;
- (b) a first oligonucleotide sequence of SEQ ID NO:9: aattctaata cgactcacta tagggAAGAT GTTTAAACTG GTCACCTGGT GGA, and a second oligonucleotide sequence of SEQ ID NO:8: TGCGTGGATT GGCTTTGATG T, or the complementary nucleotide sequence of SEQ ID NO: 8;
- (c) a first oligonucleotide sequence of SEQ ID NO:42: aattctaata cgactcacta tagggAAGGT GTGACTTCCA TGCCAA, and a second oligonucleotide sequence of SEQ ID NO:29: CAGAACAAAC CCAAGGAAAT T, or the complementary nucleotide sequence of SEQ ID NO:29; and any combination thereof.

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Claim 32 (new) A test kit for the detection of SARS coronavirus in a sample, comprising: the pair of oligonucleotides according to claim 12,

an oligonucleotide, for use as a probe, said probe comprising a molecular beacon probe selected from the group consisting of:

SEQ ID NO:13: 5'- [6-FAM]-ccatgggCTGTCATGCAACTAGAGATGCTGTcccatgg- [DabSyl]-3'; SEQ ID NO:45: 5'- [6-FAM]-cgcgatGTTCGTGCGTGGATTGGCTTatcgcg- [DabCyl]-3'; and SEQ ID NO:30: 5'-[6-FAM]-ccatggACCAAGACCTAATCAGACAAccatgg- [DabSyl]-3', and

suitable amplification reagents.

Claim 33 (new) The test kit according to claim 32, wherein the suitable amplification reagents enable a NASBA transcription based amplification technique.

In claim 18, line 3, after "said probe comprising", delete --the oligonucleotide probe of claim 15--, and insert --a molecular beacon probe selected from the group consisting of:

SEQ ID NO:13: 5'- [6-FAM]-ccatgggCTGTCATGCAACTAGAGATGCTGTcccatgg- [DabSyl]-3'; SEQ ID NO:45: 5'- [6-FAM]-cgcgatGTTCGTGCGTGGATTGGCTTatcgcg- [DabCyl]-3'; and SEQ ID NO:30: 5'-[6-FAM]-ccatggACCAAGACCTAATCAGACAAccatgg- [DabSyl]-3'.--.

In claim 20, line 4, after "said probe comprising", delete --an oligonucleotide probe of claim 15--, and insert --a molecular beacon probe selected from the group consisting of:

SEQ ID NO:13: 5'- [6-FAM]-ccatgggCTGTCATGCAACTAGAGATGCTGTcccatgg-[DabSyl]-3'; SEQ ID NO:45: 5'- [6-FAM]-cgcgatGTTCGTGCGTGGATTGGCTTatcgcg-[DabCyl]-3';and SEQ ID NO:30: 5'-[6-FAM]-ccatggACCAAGACCTAATCAGACAAccatgg-[DabSyl]-3'.--.

In claim 24, line 2, after "first oligonucleotide consists", delete --essentially--.

In claim 28, line 4, delete --claim 25-- and insert --SEQ ID NO:22: 5'-[6-FAM]-ccatgggCTACTACCGAAGAGCTACCCGACGAccatgg- [DabSyl]-3'.--.

In claim 30, line 5, delete --claim 25--, and insert --SEQ ID NO:22: 5'-[6-FAM]-ccatgggCTACTACCGAAGAGCTACCCGACGAccatgg- [DabSyl]-3',--.

3. The following is an examiner's statement of reasons for allowance:

Concerning claims 2, and 15-21, no prior art has been found teaching or suggesting a pair of oligonucleotides selected from the group consisting of a pair of SEQ ID NOs: 4 and 7, 3 and 8, and 25 and 29, method of using such a pair of oligonucleotides for detecting SARS coronavirus nucleic acid in a sample, and 2 probe selected from the group consisting of SEQ ID NOs: 13, 45 and 30.

Concerning claims 12, and 32-33, no prior art has been found teaching or suggesting a pair of oligonucleotides selected from the group consisting of a pair of SEQ ID NOs: 10 and 7, 9 and 8, and, 42 and 29 or a kit containing such a pair of oligonucleotides.

Concerning claims 6, and 23-31, no prior art has been found teaching or suggesting a pair of primers for amplifying a target sequence of SARS coronavirus consisting essentially of a first oligonucleotide comprising at least 10 contiguous nucleotides of SEQ ID NO: 15 or the complement sequence of SEQ ID NO: 15, and a second oligonucleotide comprising at least 10 contiguous nucleotides of SEQ ID NO: 19 or the complement sequence of SEQ ID NO: 19.

The closest prior art is the reference of Laue et al. who disclose a method for detecting Severe Acute Respiratory Syndrome-associated virus (SARS) in which a real time RT-PCR reaction is performed by a forward primer and a reverse primer. Laue et al. do not disclose or suggest the instantly claimed primer pairs which have the properties discussed in the response filed 9/8/2011.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to JOYCE TUNG whose telephone number is (571)272-0790. The

examiner can normally be reached on Monday - Friday, 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gary Benzion can be reached on 571 272-0782. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Joyce Tung/

Examiner, Art Unit 1637

September 25, 2011

/Kenneth R Horlick/

Primary Examiner, Art Unit 1637